

Correct. A binomial in the form $a^3 + b^3$ can be factored as $(a + b)(a^2 - ab + b^2)$.

$$x^3 + 27 = x^3 + 3^3 = (x + 3)(x^2 - x \cdot 3 + 3^2) = \\ (x + 3)(x^2 - 3x + 9)$$

The missing constant is 9.